

ABSTRACT OF THE DISCLOSURE

The automatic exposure adjustment control that is not affected by the smear is obtained in an image pick-up device control system of an electronic shutter, a lens aperture and an automatic gain control, without performing measures against a change of the dark electric-current of vertical OP, the behavior of the dark noise and defective pixels of vertical OP, and a smear amount is calculated precisely even if the weak smear phenomenon which does not reach a saturation level occurs.

Therefore, when the smear is detected, the first electronic shutter speed and the first lens aperture value are measured and the first color information integral values of red, green and blue are measured respectively in a predetermined color measurement area of an effective pixel region of an image pick-up unit and the electronic shutter speed is slowed to a predetermined amount to become the same exposure amount as the exposure amount at the first electronic shutter speed and the first lens aperture value, and the lens aperture is narrowed only to that amount, to measure the second color information integral values of the red, green and blue in the color measurement area, and the smear amount is calculated from the color integral values of the red, green and blue.